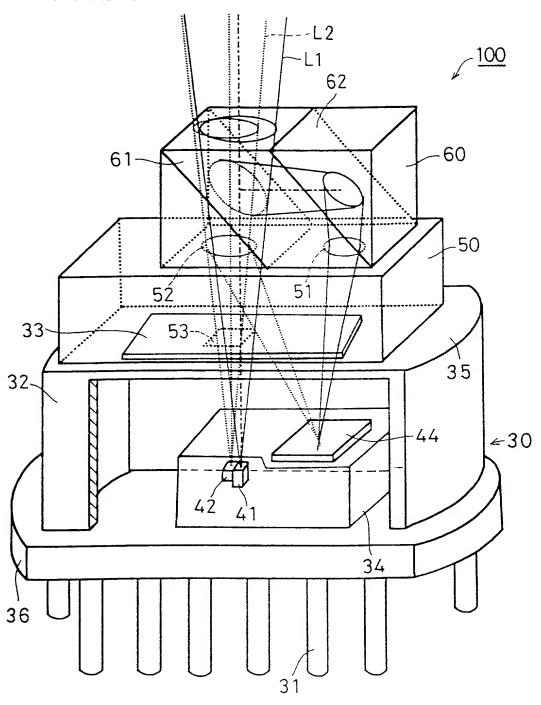
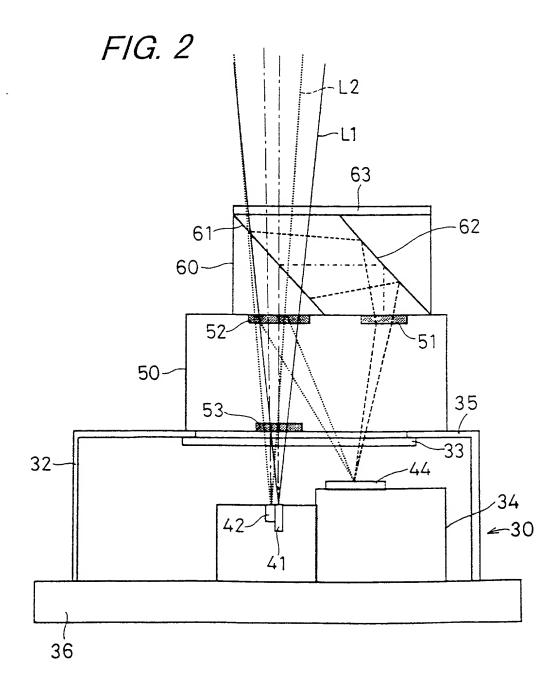
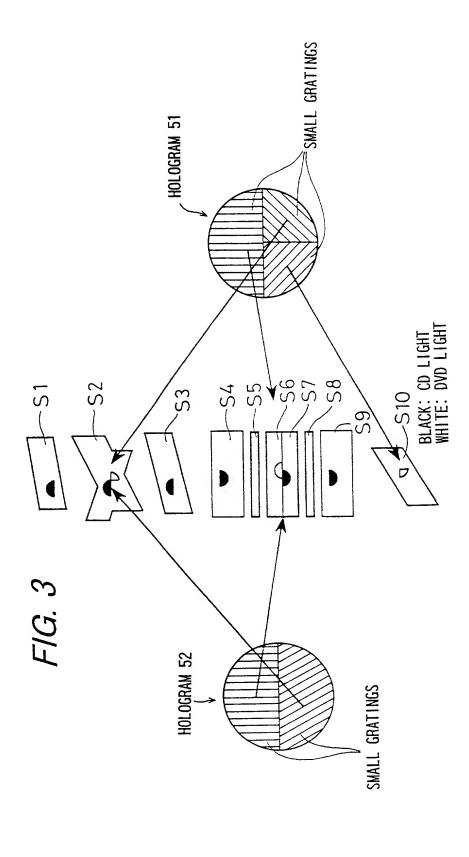
FIG. 1

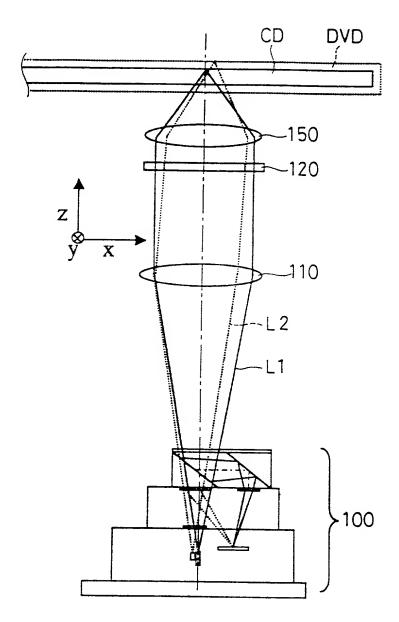




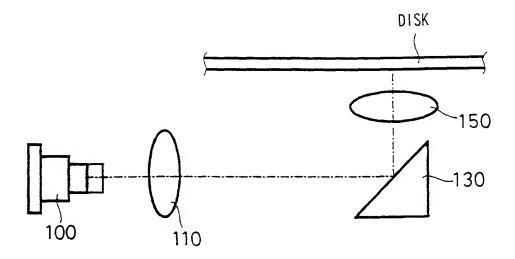


DVD SIGNALS FES (KNIFE EDGE) = (S5 + S7) - (S6 + S8) RF = (S2 + S5 + S6 + S7 + S8 + S10) TES (DPD) = (S2 - S10) CD SIGNALS FES (KNIFE EDGE) = (S5 + S7) - (S6 + S8) RF = (S2 + S5 + S6 + S7 + S8) TES (THREE-BEAM) = (S1 + S4) - (S3 + S9)

FIG. 4



F/G. 5



F/G. 6A

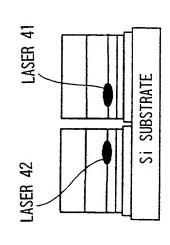


FIG. 6C

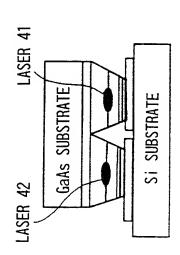


FIG. 6B

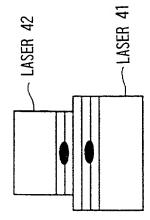
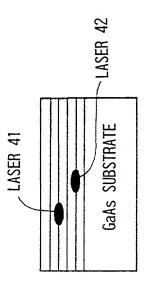
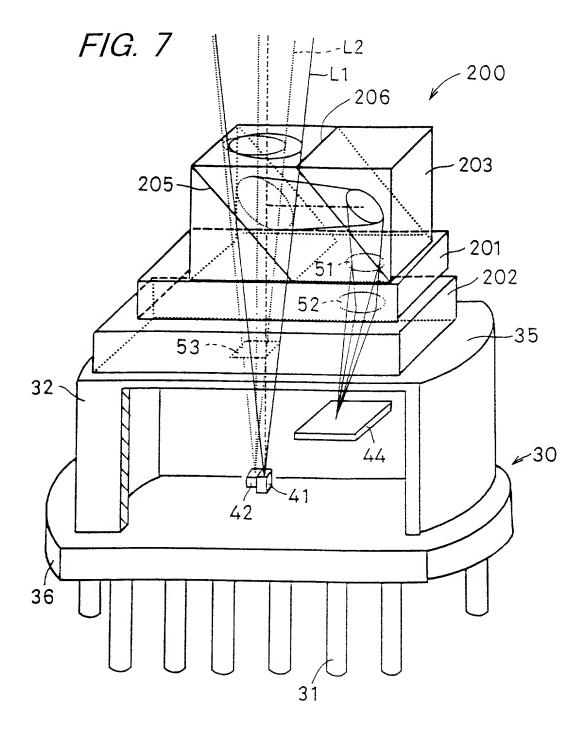
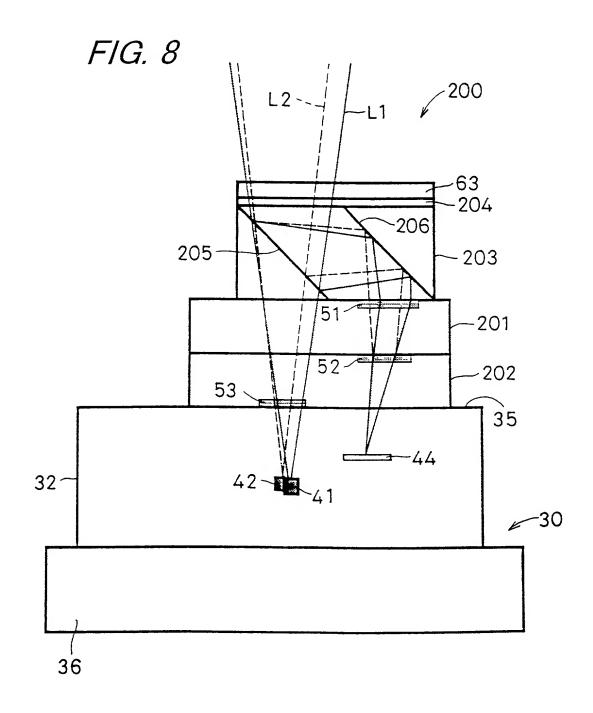
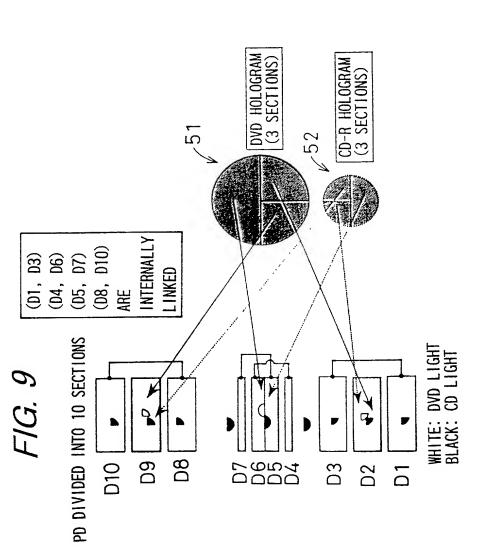


FIG. 6D

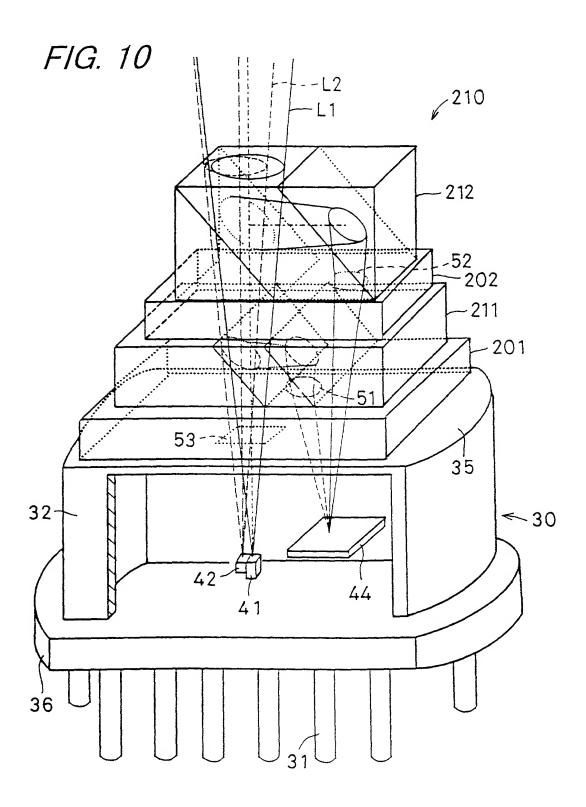






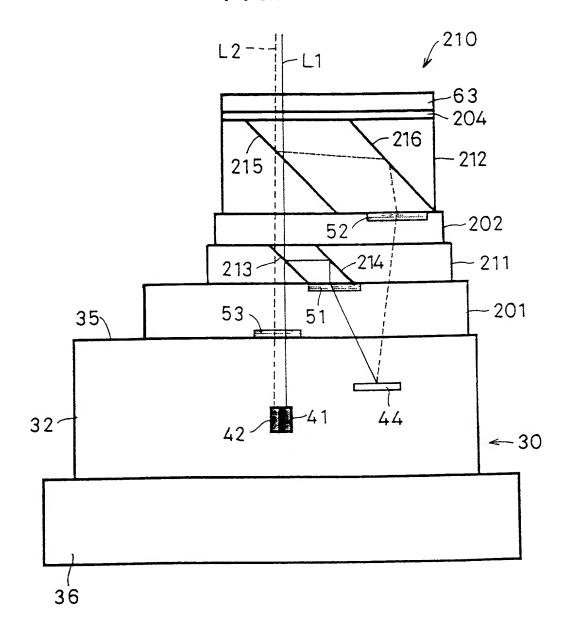


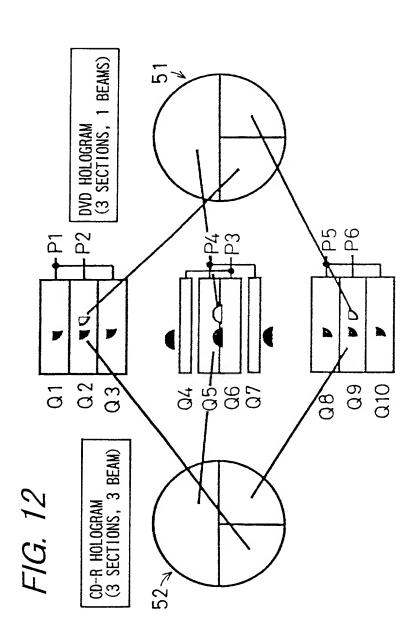
DVD SIGNALS (1 BEAM)
FES (KNIFE EDGE) = (D4 + D6) - (D5 + D7)
RF = D2 + (D4 + D6) + (D5 + D7) + D9
TES (DPD) = D2 - D9 CD SIGNALS (3 BEAMS)
FES (KNIFE EDGE) = (D4 + D6) - (D5 + D7)
= D2 + (D4 + D6) + (D5 + D7) + D9
RF
= (D2 - D9) - K{(D1 + D3) - (D8 + D10)}



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FIG. 11





01 \cdot 03 = P1, 04 \cdot 06 = P3, 05 \cdot 07 = P4, 08 \cdot 010 = P5 ARE INTERNALLY LINKED

CD SIGNALS (3 BEAMS)

RF=Q2+Q4+Q6+Q5+Q7+Q9

FES=(Q4+Q6)-(Q5+Q7)

TES(DPP) = (Q2-Q9) - K*[(Q1+Q3)-(Q8+Q10)]

DVD SIGNALS (1 BEAM)

RF = Q2 + Q4 + Q6 + Q5 + Q7 + Q9

FES=(Q4+Q6) - (Q5+Q7)

TES(DPD)=Phase(Q2-Q9)

FIG. 13 PRIOR ART

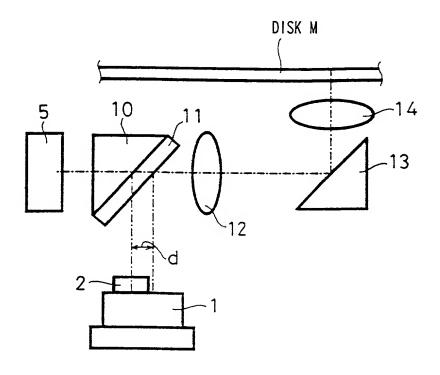


FIG. 14 PRIOR ART

